

# Use the Clues

## What to Do

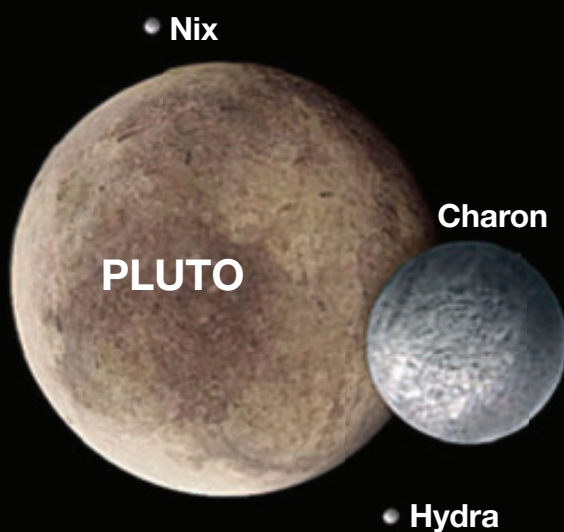
- Look carefully at the diagram and captions below. Use the information provided to help you define the words written in bold type.

## What You Need

- dry-erase marker
- dictionary

## Pluto: The Dwarf Planet

In 2006 Pluto was **demoted**. It's no longer considered a planet! It went from being classified as a planet to being classified as a smaller type of planet known as a dwarf planet. Here are some other interesting facts about Pluto.



## Did you know?

- Pluto is cold! The average temperature on this glacial rock is  $-233^{\circ}\text{C}$ !
- There is no oxygen to breathe on Pluto. The **atmosphere** surrounding the dwarf planet is made up of gases such as nitrogen and methane.
- Pluto has three satellites! They orbit Pluto just like the Moon orbits Earth.

Demoted means \_\_\_\_\_.

Atmosphere means \_\_\_\_\_.

## Try It!

Write a question about another unfamiliar word from the diagram above, and ask a partner to answer it. You can use a dictionary to help you write your sentence.

# Use the Clues #2

## What to Do

- Look carefully at the diagram and captions below. Use the information provided to help you define the words written in bold type.
- Write down which clues (illustration, heading, caption, for example) helped you define the words.

## What You Need

- dry-erase marker
- pencil and paper

## Buoyancy: How Different Objects Float

Why do some objects sink while others float? What makes a rock less **buoyant** than a beach ball? Read on and find out why some things float and others don't!

The density (amount of matter in an object) determines how different objects float. An object that has low density **displaces** very little water, so it will float. An object that has high density displaces a lot of water, so it will sink.



Buoyant means \_\_\_\_\_

Clues: \_\_\_\_\_

Displaces means \_\_\_\_\_

Clues: \_\_\_\_\_

The beach ball is less dense than the water since it's mostly filled with air. It displaces very little water. Most of the ball floats above the water.

The soccer ball is also filled with air, but it's denser than the beach ball. It moves more water, so more of the soccer ball is under the water.

The density of the rock is much greater than the density of the water. It displaces its entire weight in water. The rock sinks.

## Try It!

What questions do you still have about **buoyancy**? Do further research to find answers to your questions.